

## EAST Search History

| Ref # | Hits | Search Query   | DBs  | Default Operator | Plurals | Time Stamp       |
|-------|------|--|--|------------------|---------|------------------|
| S30   | 28   | ("3893158"   "4047045"   "4160308"   "4322628").PN. OR ("4446375").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 07:37 |
| S31   | 62   | ("3494022"   "3660669"   "3808673"   "3893158"   "4047045"   "4156148"   "4160308"   "4266140"   "4322628"   "4446375"   "4450461"   "4478588").PN. OR ("4633582").URPN. | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 08:10 |
| S32   | 2605 | (lead adj frame leadframe) and bend\$4 and (isolat\$3 opto\$ photo photocoupl\$4 optic\$)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/07 08:15 |
| S33   | 1642 | (lead adj frame leadframe) and bend\$4 and (opto\$ photo photocoupl\$4 optic\$)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2007/02/07 12:21 |
| S34   | 7    | ("5099307"   "5361318"   "5416871"   "6075911").PN. OR ("6315465").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 11:18 |
| S35   | 27   | "4446375"  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 11:18 |
| S36   | 28   | ("3893158"   "4047045"   "4160308"   "4322628").PN. OR ("4446375").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 11:39 |
| S37   | 7    | "3808673"  | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 11:39 |
| S38   | 13   | ("3387359"   "3431092"   "3462605"   "3490141").PN. OR ("3808673").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR               | ON      | 2007/02/07 12:04 |
| S39   | 912  | (250/551).CCLS.  | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR               | OFF     | 2007/02/07 12:07 |

## EAST Search History

|     |      |   |  |    |     |                  |
|-----|------|---|--|----|-----|------------------|
| S40 | 1058 | (257/659).CCLS.   | US-PGPUB;<br>USPAT;<br>USOCR;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB          | OR | OFF | 2007/02/07 12:07 |
| S41 | 1642 | (lead adj frame leadframe) and bend\$4 and (opto\$ photo photocoupl\$4 optic\$)                           | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/02/07 12:39 |
| S42 | 142  | (lead adj frame leadframe) and twist\$4 and (opto\$ photo photocoupl\$4 optic\$) not S41                  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/02/07 12:25 |
| S43 | 7977 | (lead adj frame leadframe) and (opto\$ photo photocoupl\$4 optic\$) not S41                               | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/02/07 12:40 |
| S44 | 2940 | (lead adj frame leadframe) and bend not S41   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/02/07 12:31 |
| S45 | 346  | ("247".clas. "250".clas.) and (lead adj frame leadframe) and (opto\$ photo photocoupl\$4 optic\$) not S41 | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/02/07 12:37 |

## EAST Search History

|     |      |  |  |    |    |                  |
|-----|------|--|--|----|----|------------------|
| S46 | 37   | (US-20020020906-\$ or US-20030141437-\$ or US-20010045531-\$ or US-20050023441-\$ or US-20060071289-\$ or US-20050077623-\$ or US-20020185650-\$ or US-20020106169-\$).did. or (US-5770867-\$ or US-6507035-\$ or US-5294751-\$ or US-6541711-\$ or US-5679975-\$ or US-6777703-\$ or US-5545893-\$ or US-6380567-\$ or US-6885016-\$ or US-4160308-\$ or US-5523621-\$ or US-4446375-\$ or US-5148243-\$ or US-4809054-\$ or US-4694183-\$ or US-4633582-\$ or US-6315465-\$ or US-4863806-\$ or US-4980568-\$ or US-5049527-\$ or US-3808673-\$).did. or (JP-61073387-\$ or JP-04252053-\$ or JP-2003282936-\$ or JP-53133384-\$ or JP-54012688-\$ or JP-03136382-\$ or JP-04105371-\$ or JP-06085313-\$).did. | US-PGPUB;<br>USPAT;<br>JPO   | OR | ON | 2007/02/07 12:38 |
| S47 | 33   | S46 and (lead adj frame leadframe)   | US-PGPUB;<br>USPAT;<br>JPO   | OR | ON | 2007/02/07 12:38 |
| S48 | 4    | S46 not S47  | US-PGPUB;<br>USPAT;<br>JPO   | OR | ON | 2007/02/07 12:38 |
| S50 | 648  | (lead adj frame leadframe) and bent and (opto\$ photo photocoupl\$4 optic\$) not S41   | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/08 08:19 |
| S51 | 26   | ("3660669"   "3836793"   "3839782"   "3893158"   "3925801"   "4047045"   "4156148"   "4160308"   "4322628"   "4446375"   "4533582"   "4791473").PN. OR ("5148243").URPN.   | US-PGPUB;<br>USPAT;<br>USOCR   | OR | ON | 2007/02/08 07:14 |
| S52 | 1646 | (lead adj frame leadframe) and bend\$4 and (opto\$ photo photocoupl\$4 optic\$)  | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/08 08:20 |

## EAST Search History

|     |     |   |  |    |    |                  |
|-----|-----|---|--|----|----|------------------|
| S53 | 648 | (lead adj frame leadframe) and bent and (opto\$ photo photocoupl\$4 optic\$) not S52          | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/08 08:20 |
| S54 | 276 | (lead adj frame leadframe) and fold\$3 and (opto\$ photo photocoupl\$4 optic\$) not (S53 S52) | US-PGPUB;<br>USPAT;<br>USOCR;<br>FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/02/08 08:20 |